

**Please amend the Specification as follows:**

Please replace the paragraph beginning on line 79 on page 3 with the following amended paragraph.

Fig. 2 shows a transmitter according to an embodiment of the invention. Directional coupler 201 may obtain the waveform as amplified by amplifier, that is a transmitted symbol. Subsequently transmitted symbols are next symbols. The signal is provided to a squarer 203, which may be an analog device. An analog to digital converter follows 205. The signal may be integrated over the duration of a transmitted symbol using integrator 207, to provide an energy value 209 or energy of the transmitted symbol according to the following equation:

Please replace the paragraph beginning on line 155 on page 5 with the following amended paragraph.

The duration when the compensator provides the compensated data signals is known as the compensation period. The compensator 251 may operate in a sampling period acquisition mode where no changes are made to data symbols provided to the compensator, and such symbols are placed onto the IFFT-bus 261 unchanged by the compensator. The compensator may operate in a feedback mode during a compensator period where the compensator 251 provides the compensated in-phase baseband, i.e., first

in-phase compensated data symbol (FICDS) 263, and a second in-phase compensated data symbol (SICDS) 265, and compensated quadrature baseband, i.e., a first quadrature compensated data symbol (FQCDS) 262, second quadrature compensated data symbol (SQCDS) 264, signals to the IFFT 271. Modulator 281 may operate as an OFDM and may be followed by amplifier 291.